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10/610,500	06/30/2003	Jheroen P. Dorenbosch	CE11261N/10-172	5357

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RESTON, VA 20191

EXAMINER

PHUNKULH, BOB A

ART UNIT PAPER NUMBER

2661

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Please find below and/or attached an Office communication concerning this application or proceeding.



### DETAILED ACTION

This communication is in response to applicant's 03/24/2005 amendment(s)/response(s) in the application of **DORENBOSCH** for "**FAST HANDOVER THROUGH PROACTIVE REGISTRATION**" filed 06/30/2003. The amendments/response to the claims have been entered. No claims have been canceled. No claims have been added. Claims 1-25 are now pending.

### ***Claim Rejections - 35 USC § 102***

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1-25 are rejected under 35 U.S.C. 102(e) as being anticipated by *Bridgelall* (US Patent Application Publication No. 2002/0085516 A1).

a) In Regarding to Claim 1: *Bridgelall* disclosed a communications unit (see Fig.9) comprising:

a receiving device for receiving signals from a first and a second wireless communications network (see Fig. 9: devices 902 and 924 for receiving/transmitting from/to wireless local area network (WLAN) and wireless wide area network (WWAN),

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respectively; hence, a receiving device for receiving signals from a first and a second wireless communications network);

a controller, coupled to and controlling the receiving device, for detecting a condition indicative of initiating communication over the first wireless communications network (see Fig. 9: 922; and Paras. [0052] - [0053] in page 6: the controller 922 manages the flow of control signaling and data traffic between the controller 922 and either the WLAN (first com. network) or WWAN (the second com. network)); and

a transmitting device, coupled to and controlled by the controller, and cooperatively operating with the receiving device and the controller for facilitating the communication over the first wireless communications network (see Fig.9: devices 902 and 924 for transmitting/receiving to/from WLAN and WWAN, respectively; hence, a transmitting device coupled to and controlled by the controller, and cooperatively operating with the receiving device and the controller for facilitating the communication over the first wireless communications network) and for facilitating registration with the second wireless communications network when the controller detects the condition (see Fig. 11: the arrow connected from WWAN signaling to WLAN signaling; and Paras. [0062]-[0067] in page 7: for seamless vertical roaming to be accomplished, simultaneous signaling in one network must be feasible between a full traffic connection in the other network; hence, facilitating registration with the second wireless communications network when the controller detects the condition).

b) In Regarding to Claim 2: *Bridgelall* further disclosed the receiving device is further for receiving a beacon signal (see Fig. 6: step 604 or step 607);

wherein the controller is further for detecting beacon information included with the beacon signal, the beacon information indicative of a location of the communications unit (see Para. [0044] in page S: the beacons announce identity and location information that the mobile will need to locate a network); and

wherein the registration with the second wireless communications network is facilitated when the controller detects both the condition and the beacon information (see Fig. 11: the arrow pointed to VoIP Traffic (hence, a call initiation), and the signaling arrow pointed from WLAN signaling to WWAN signaling (hence, beacon signal)).

c) In Regarding to Claim 3: *Bridgelall* further disclosed the controller is further for determining a coverage quality corresponding to the first wireless communications network (see Para. [0087] in page 9), and

wherein the registration with the second wireless communications network is facilitated when the controller detects the condition and when the controller determines that the coverage quality satisfies a predetermined threshold (see Para. [00751 in page 8).

d) In Regarding to Claim 4: *Bridgelall* further disclosed the controller is further for determining a coverage quality corresponding to the second wireless communications network (see Para. [0076] in page 8); and wherein the registration with the second

wireless communications network is facilitated when the controller detects the condition and when the controller determines that the coverage quality satisfies a predetermined threshold (see Para. [0075] in page 8).

e) In Regarding to Claim 5: *Bridgeall* further disclosed the controller is further for detecting an other condition indicative of one of a completion of the communication over the first wireless communications network, a completion of a communication over the second wireless communications network, and when the communication was never initiated (see the last Para. [0041]: a call release procedure), and

wherein the controller cooperatively with the transmitting device and the receiving device facilitates deregistration from at least one of the first wireless communications network and the second wireless communications network when the controller detects the other condition indicative of the completion of the communication (see the last sentence in Para. [0041]: A transmission of channel release message terminates the physical connection and the physical Radio link terminates; hence, the controller facilitates deregistration from at least one of the two communications networks).

f) In Regarding to Claim 6: *Bridgeall* further disclosed the controller is further for detecting a location of the communications unit (see Para. (0044] in page 5: the beacons announce identity and location information that the mobile will need to locate a network), and wherein the registration with the second wireless communications network is facilitated when the controller detects the condition and that the location of

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the communications unit is within a first predetermined range (see Para [0086]: real time location system using angle of arrival estimates and triangulation for determining a position of an object (hence, a first predetermined range of the communications unit 102 can be detected)).

g) In Regarding to Claim 7: *Bridgelall* further disclosed the controller is further for detecting if the location of the communications unit is within a second predetermined range, and wherein the registration with the second wireless communications network is facilitated when the controller detects the condition and that the location of the communications unit has changed from the first predetermined range to the second predetermined range within a predetermined time period (see Para [00751]).

h) In Regarding to Claim 8: *Bridgelall* further disclosed the communication unit further comprising a motion detector in communication with the controller for detecting a motion of the communications unit, and wherein the registration with the second wireless communications network is facilitated when the controller detects the condition and that the motion of the communications unit exceeds a predetermined motion threshold (see Para [0075]: when the terminal 1301 senses a gradual transition to high WLAN packet error rates, frequent rates scale back or a consistent signal strength degradation (hence, the controller detects the condition and that the motion of the communications unit exceeds a predetermined motion threshold)).

i) In Regarding to Claim 9: *Bridgelall* further disclosed the condition comprises at least one of: accessing a communications unit phone book; dialing a number; opening a hinged cover of the communications unit; and entering a key for access to the communications unit (see Para. [0041]: call origination).

j) In Regarding to Claim 10: *Bridgelall* further disclosed the first wireless communications network comprises a first one of a wireless local area network (WLAN) and a wireless wide area network (WAN) and wherein the second wireless communications network comprises a second one of the WLAN and the WAN (see Fig. 1: WLAN 104 and WWAN 102; and Fig. 2: 201 and 205).

k) In Regarding to Claims 16-20 and 22-25: these claims are rejected for the same reasons as claims 1-8 and 10, respectively because the apparatus in the communications unit cited in the claims 1-8 and 10 can be used to practice the method steps of the claims 16-20 and 22-25.

l) In Regarding to Claim 21: *Bridgelall* further disclosed the operating exclusively on the first wireless communications network further comprises starting up a first stack corresponding to the first wireless communications network (see Fig. 10: WLAN/802. 11 protocol stack (a first stack)); wherein the registering with the second wireless communications network further comprises starting up a second stack corresponding to the second wireless communications . network (see Fig. 10: GSMIGPRS protocol stack (a second stack));

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and wherein the de-registering from the at least one of the first and the second wireless communications networks comprises dropping; at least one of the first and the second stacks (see Para. [0041]: a transmission of channel release message terminates the physical connection and the physical radio link terminates; hence, the at least one of the first and the second networks dropping at least one of the first and the second stacks).

m) In Regarding to Claims 11-15: *Bridgelall* disclosed a method for facilitating handover of a link with a communications unit between wireless communications networks employing different technologies as recited in claims 16-20. This method can be applied to reject these claims for the same reasons as that of claims 16-20 because it is well known in the art that method steps can be programmed to automate a process. The resulting program is considered. as firmware that the apparatus uses to perform the method steps. Furthermore, *Bridgelall* also disclosed such a program (see Para. [0003]: program products).

### ***Response to Arguments***

Applicant's arguments filed 3/24/2005 have been fully considered but they are not persuasive.

Response to the applicant's argument in page 3, *Bridgelall* discloses in paragraph 0011:

An outgoing VoIP call from the WLAN Radio to a remote party on the WLAN will transition or seamlessly switch over to the WWAN connection when the MS detects packet error rates, frequent scale back or consistent signal degradation. Upon such conditions, the WLAN Radio requests the EGC to request an Explicit Call Transfer or a conference call via the MSC to the MS

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integrated WWAN Radio portion which automatically accepts the call based on referenced information stored in the user's subscriber identification module (SIM).

Therefore *Bridgelall* discloses *detecting an condition indicative of initiating communication and facilitating registration with the second wireless communication network when the controller detects the condition.*

### **Conclusion**

**THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

### **Any response to this action should be mailed to:**

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to **Bob A. Phunkulh** whose telephone number is **(571) 272-3083**. The examiner can normally be reached on Monday-Tuesday from 8:00 A.M. to 5:00 P.M. (first week of the bi-week) and Monday-Friday (for second week of the bi-week).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor **Chau Nguyen**, can be reach on **(571) 272-3126**. The fax phone number for this group is **(571) 273-8300**.

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Bob A. Phunkulh  
Primary Examiner  
TC 2600  
Art Unit 2661  
September 07, 2005

**BOB PHUNKULH**  
**PRIMARY EXAMINER**